

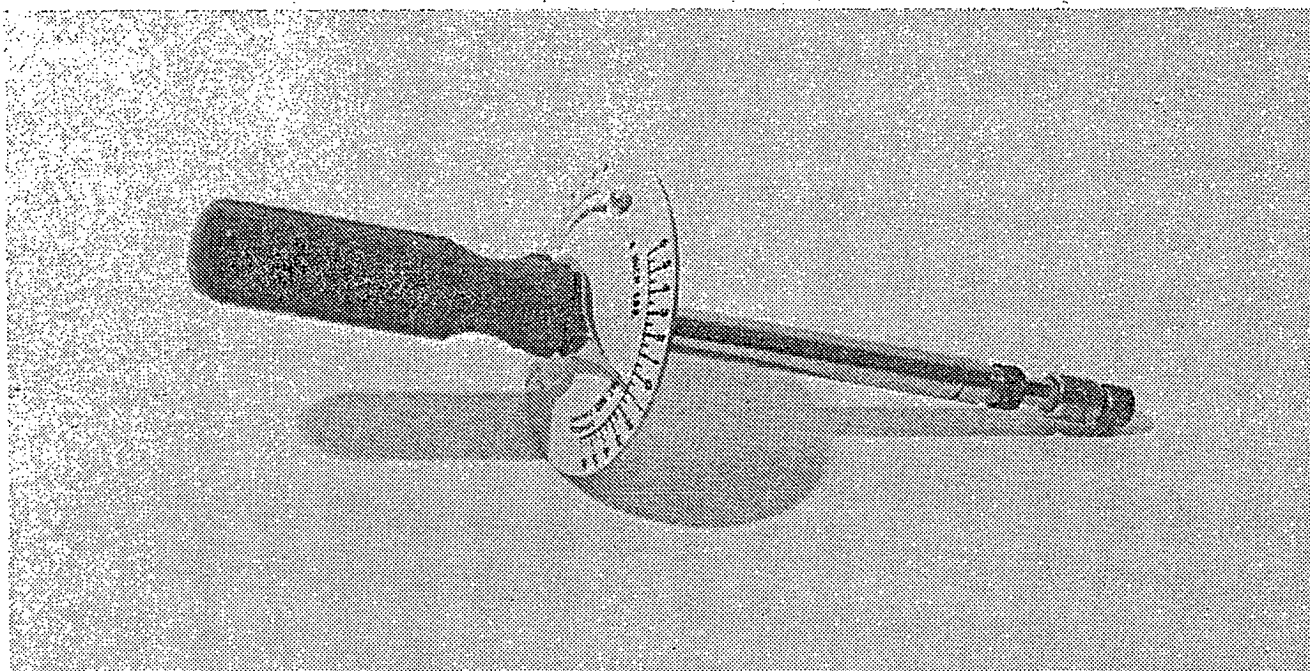
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ESB 74-18
10 April 1974

MEMORANDUM FOR : The Record
ATTENTION : OTS/CB,
THROUGH : C/OTS/Equipment
SUBJECT : Battery Tool for HED Silver Cells

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1. It is hoped that leakage of high-energy-density (HED) silver cells can be eliminated, or minimized, by tightening all vent screws on all batteries the same amount with a commercial torque wrench after filling the cells with electrolyte. Therefore, ESB has constructed a tool to tighten the vent screws. It is suggested that this (pictured below) or a similar tool be used in lieu of a needle nose pliers to tighten the vent screws.



2. A wrench can be fabricated from materials similar or equivalent to our exemplar components listed below:
 - a. An APCO-MOSSBERG 6 inch-pounds (.678 newton-metre) torque wrench with a 1/4" (6.35mm) square drive bit.
 - b. A modified 3/16" (4.76mm), 6 point hex, standard length, 1/4" (6.35mm) square drive socket.
 - c. An expansion limiting collar for the modified drive socket.

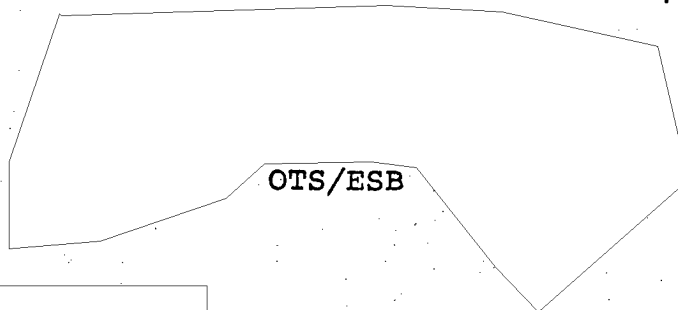
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3. A minimum amount of experimentation should be all that is needed to establish torque limitations for installing the vent screw. We are currently using approximately five and one half inch pounds (.622 newton-metre) torque. If experience should dictate a better torque level the information will be forwarded.
4. Our prototype sample is available for examination, if desired.



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Distribution:

- 1 - C/OTS/EQ
- 1 - OTS/CB/ [redacted]
- 1 - C/OTS/ESB
- 1 - ESB chrono

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